BRUHAT BANGALORE MAHANAGARA PALIKE
RAJARAJESHWARINAGAR ZONE
ELECTRICAL DIVISION
DETAILED ESTIMATE FOR PUBLIC WORKS

Name of the Work: providing M&R to Electrical installation of BBMP Buildings in Ward no 16,17 & 37.

Est. No.AEE/ELE/RRNZ/ EST/ / 16-17				Job Code: 16-16-000018		
Sl No	**SR ref**	**Description of Work**	**unit**	**Qty**	**Rate**	**Amount**
1	1.1	Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. (Item No. - 1.1)				
	1.1.1	19/20mm dia 2mm thick (Item No. - 1.1.1)	Mtr	25	54.00	1350.00
2	1.8	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm .... etc. as required. (Item No. - 1.8)				
	1.8.2	25mm (Item No. - 1.8.2)	Mtr	25	26.00	650.00
3	1.9	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely (Item No. - 1.9)				
	1.9.1	20mm (Item No. - 1.9.1)	Mtr	5	23.00	115.00
4	1.1	Supplying And Fixing "S" Hook made out of 14mm dia M.S.Rod. (Item No. - 1.1)	No	5	36.00	180.00
5	1.11	Supplying And Fixing M.S. Rafter Clamp Set made out of M.S. Flat & 14mm M.S. rod. (Item No. - 1.11)	No	5	83.00	415.00
6	2.1	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A (Item No. - 2.1)				
	2.1.1	Short point upto 3Mtr from tapping point to out let via switch (Item No. - 2.1.1)	Point	2	174.00	348.00
	2.1.2	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch (Item No. - 2.1.2)	Point	5	245.00	1225.00
	2.1.3	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch (Item No. - 2.1.3)	Point	5	363.00	1815.00
7	2.5	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Item No. - 2.5)				
	2.5.2	1.5 sqmm (Item No. - 2.5.2)	Mtr.	100	18.60	1860.00
	2.5.3	2.5 sqmm (Item No. - 2.5.3)	Mtr.	200	29.20	5840.00
	2.5.4	4 sqmm (Item No. - 2.5.4)	Mtr.	200	42.10	8420.00
	2.5.5	6 sqmm (Item No. - 2.5.5)	Mtr.	50	63.80	3190.00
8	2.7	Supplying and drawing PVC flexible copper wire of approved make in place of deteriorated wire. (Item No. - 2.7)				
	2.7.4	23/0.0060" (Item No. - 2.7.4)	Mtr.	50	8.00	400.00
9	3.7.A	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A (Item No. - 3.7.A)				
	3.7.A.4	Stepped Fan Regulator. (Item No. - 3.7.A.4)	Each	10	286.00	2860.00
	3.7.A.11	TV/Telephone socket (Item No. - 3.7.A.11)	Each	2	82.00	164.00

Sl No	SR ref	Description of Work	unit	Qty	Rate	Amount
10	3.1	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws. (Item No. - 3.1)	Sq CM	20000	0.22	4400.00
11	3.13	Supplying....way plastic gang box and fixing using necessary wooden/ rawl/phill plugs and screws. (Item No. - 3.13)				
	3.13.2	2 to 4 way gang box (Item No. - 3.13.2)	No	10	29.00	290.00
	3.13.3	6 to 10 way gang box (Item No. - 3.13.3)	No	15	53.00	795.00
12	3.15.A	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A (Item No. - 3.15.A)				
	3.15.A.1	6Amps SP Switch (Item No. - 3.15.A.1)	No	100	35.00	3500.00
	3.15.A.2	6Amps 2way Switch (Item No. - 3.15.A.2)	No	10	49.00	490.00
	3.15.A.3	6Amps 3 way 5 pin Socket (Item No. - 3.15.A.3)	No	25	53.00	1325.00
	3.15.A.4	6Amps 3 pin Top (Item No. - 3.15.A.4)	No	25	51.00	1275.00
	3.15.A.5	6Amps Bakelite ceiling rose (Item No. - 3.15.A.5)	No	25	43.00	1075.00
	3.15.A.6	6 Amps lamp holder (Item No. - 3.15.A.6)	No	25	48.00	1200.00
	3.15.A.7	6 Amps bell push (Item No. - 3.15.A.7)	No	10	48.00	480.00
	3.15.A.8	6 Amps bell buzzer (Item No. - 3.15.A.8)	No	10	117.00	1170.00
	3.15.A.9	16 Amps SP switch (Item No. - 3.15.A.9)	No	10	89.00	890.00
	3.15.A.10	16 Amps 3 way 5 pin socket (Item No. - 3.15.A.10)	No	10	94.00	940.00
	3.15.A.11	16 Amps 3 pin top (Item No. - 3.15.A.11)	No	10	77.00	770.00
	3.15.A.12	32 Amps Bakelite DP (Item No. - 3.15.A.12)	No	10	156.00	1560.00
	3.15.A.13	16/6 Amps combined plug and socket with control switch (Item No. - 3.15.A.13)	No	10	268.00	2680.00
13	4.7	Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic. (Item No. - 4.7)				
	4.7.1	1x4'-28 Watts (Item No. - 4.7.1)	Each	5	990.00	4950.00
14	6.7	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. (Item No. - 6.7				
	6.7.3	63Amps (Item No. - 6.7.3)	Each	5	234.00	1170.00
15	6.16	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (Item No. - 6.16)				
	6.16.1	5-32Amps SP (Item No. - 6.16.1)	Each	10	418.00	4180.00
	6.16.3	5-32 Amps DP (Item No. - 6.16.3)	Each	5	849.00	4245.00
	6.16.6	40-63Amps TPN (Item No. - 6.16.6)	Each	1	1936.00	1936.00
16	7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (Item No. - 7.1	No	4	2727.00	10908.00
17	7.22.A	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire (Item No. - 7.22.A)				
	7.22.A.3	8 SWG (Item No. - 7.22.A.3)	Mtr	50	19.50	975.00
18	9.4	Supplying wall mounting fan suitable to operate at single-phase 230v A.C. supply. (Item No. - 9.4)				
	9.4.1	300mm Sweep (Item No. - 9.4.1)	Each	2	2424.00	4848.00
19	11.2	Supplying and drawing PVC flexible one pair telephone unarmoured tinned copper cable. (Item No. - 11.2)				
	11.2.2	2Pair (Item No. - 11.2.2)	Rmt.	50	13.00	650.00
20	16.1	Supplying and fixing one of 230 volts bell or buzzer and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws. (Item No. - 16.1)	Each	1	145.00	145.00

Sl No	SR ref	Description of Work	unit	Qty	Rate	Amount
21	16.2	Supplying and fixing one of 230 volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws (Item No. - 16.2)				
	16.2.1	Ding Dong Bell (Item No. - 16.2.1)	Each	1	200.00	200.00
22	16.3	Supplying and fixing/replacing condenser for ceiling fan/MV/SV/MH and other luminaries. (Item No. - 16.3)				
	16.3.1	upto 4mfd (Item No. - 16.3.1)	Each	5	104.00	520.00
23	16.4	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing. (Item No. - 16.4)				
	16.4.3	1200MM (Item No. - 16.4.3)	Each	5	630.00	3150.00
24	16.5	Releasing the existing fan dismantling testing painting after removing the existing painting by scraping and cleaning (spray method) not less than 2 coats of approved make enamel paint to a ceiling fan and wiring and fixing of the same. (Item No. - 16.5)	Each	10	278.00	2780.00
25	16.11	Supply and fixing of heavy duty open construction ferromagnetic copper ballast for 20/40 watts fluorescent tubes. (Item No. - 16.11)	Each	10	200.00	2000.00
26	16.12	Releasing the existing FTL Fitting all capacities, checking, testing and installing at same place. (Item No. - 16.12)	Each	25	30.00	750.00
27	16.15	Supplying and fixing/replacing of fluorescent tube. (Item No. - 16.15)				
	16.15.1	18 to 40Watts (Item No. - 16.15.1)	No	40	75.00	3000.00
28	16.18	Supply and fixing of 230 volts 20/40 watts starter for fluorescent lamp. (Item No. - 16.18)	No	10	31.00	310.00
29	16.19	Supply and fixing of 230 volts 20/40 watts fluorescent lamp holder. (Item No. - 16.19)	No	20	31.00	620.00
30	17.7	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round				
	17.7.1	On wall / ceiling / Rafter / Girders (Item No. - 17.7.1)	Each	5	98.00	490.00
31	17.9	Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired. (Item No. - 17.9)	Each	2	237.00	474.00
		Miscellanious and round off				27.00
		Total				**100000.00**

1) Certified that,the work spot has been inspected by me & prepared the estimate in most economical way of executing the work.

2.) The Provisions made in the estimate are adequate and are necessary.

3.) The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.

4.) The rates in the Estimate is based on the KPWD (Elect) SR 2014-15.

Junior Engineer(Electrical)
RR Nagar Zone
BBMP

Assistant Executive Engineer (Elect)
RR Nagar Zone
BBMP

Executive Engineer(Elect)
RR Nagar Zone
BBMP

Administrative Sanctioned for Rs. 100000-00.

Rupees one lakh only.

P0294.

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Ref. 38/16-17. Date 10/5/16.

AE, (Elect) RRN

EE, (Elect) RRN

Technically Sanctioned for Rs. 100000-00.

Rs. Rupees one lakh only.

is accorded

under the head P0294

By EE (Elect) CRRU page 124/13

Registered as S.R.No. 30/16-17 Subject to conditions contained in enclosed memo

No. 30/16-17 Date 11/5/16

AE, (Elect) RRN

EE, (Elect) RRN